

THE ATIS ADVANTAGE MODEL **PL-4600**

THE ULTIMATE IN RECORDING TECHNOLOGY FOR MEDIUM TO LARGE APPLICATIONS.



- **True Real-Time Call Monitoring**
Listen to a call as it takes place and navigate through the already recorded portion.
- **Long-Term Stability**
No fragmentation of instant access hard drive storage.
- **Failsafe System**
Automatic recovery after power failure during operation.
- **Instant recording to removable media and stress reduction**
Select direct recording to removable media and HDD buffer or allow accumulation of data before recording to removable media.



The PL-4600 is a member of the Advantage Series line of recorders featuring the MDR Recording System. The PL-4600 provides the ultimate in recording technology where reliability and dependability are of the utmost importance. The system offers a high level of integration into existing communication installations.

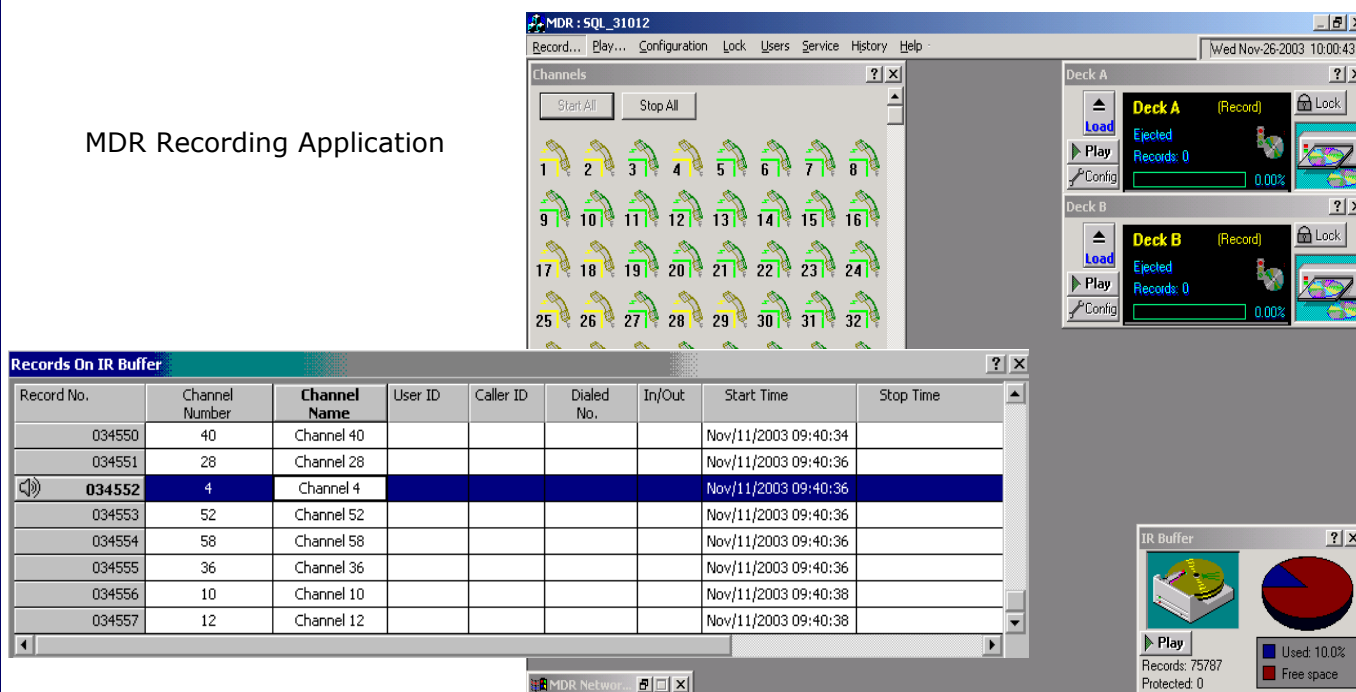
The easy to use Graphical User Interface (GUI) makes the PL-4600 ideally suited for applications in public safety, air traffic control, public utilities, financial institutions and corporate businesses.



The PL-4600 Digital Recording System combines industrial strength packing with reliable and dependable recording applications. The PL-4600 System Rack features a lockable archive drive bay door for dust-proof integrity and running security.



MDR Recording Application



Record No.	Channel Number	Channel Name	User ID	Caller ID	Dialed No.	In/Out	Start Time	Stop Time
034550	40	Channel 40					Nov/11/2003 09:40:34	
034551	28	Channel 28					Nov/11/2003 09:40:36	
034552	4	Channel 4					Nov/11/2003 09:40:36	
034553	52	Channel 52					Nov/11/2003 09:40:36	
034554	58	Channel 58					Nov/11/2003 09:40:36	
034555	36	Channel 36					Nov/11/2003 09:40:36	
034556	10	Channel 10					Nov/11/2003 09:40:38	
034557	12	Channel 12					Nov/11/2003 09:40:38	

Features

- Secure communication recording.
- Easy system operation.
- Reliable long-term archiving.
- Flexible system configuration.
- Robust Windows® 2000 operating system used as a shell for the MDR recording application.
- Powerful processor technology.
- **Records from 8-64 channels.**
- Uses two (2) 4.7 GB DVD RAM Drives as archive media.

Recording Options

- Analog and/or digital inputs.
- Continuous record, VOX and COR.
- Selectable voice compression per channel.
- Continuous or on-demand archiving.
- Call Related Data (CRD) - date, time, phone numbers, operator, etc.
- It is possible to program the system to stop and start recording at specified times.
- The system can be set to record or not to record certain phone numbers, either outgoing or incoming.

Playback Functions

- Listen to a call that is in progress and play back portions of the call before recording is complete without interruption of the recording process.
- Instant replay from the HDD for up to 15 operator positions via LAN.
- Comprehensive audio database search facility.
- On-line and off-line playback without interruption of the recording process.
- Multi-channel playback available for records on the HDD and archive media.

Please contact ATIS, Ltd. directly for additional information.



System Platform

- Industrial Enclosure—19" rack mount, 4 PU high and 20.5 inches deep.
- CPU/Bus system—Passive ISA back plane with industrial single board computer (SBC).
- Operating System—Microsoft Windows 2000 Professional, ATIS Application software: English (German, French, Italian, Spanish and Portuguese on request).
- Peripherals Required: SVGA MMX monitor, keyboard and PS/2 mouse (supplied).

Input Interfaces

- Channel Capacity: 8-64 channels, mixed card mode (digital/analog) possible.
- Analog Interfaces: 8 input channels per board, high impedance 20 Kohm or 600 ohm DC isolated (selectable per channel). Input voltage range 18 mV—2.2 Vrms, AGC per channel.
- Recording Start: Continuous recording, VOX, COR or optional voltage sensing.
- Digital ISDN Basic Rate Interface—4 BRI links (8 B-channels) per board, protocol EDSS1 (others available on request).
- Digital ISDN Primary Rate Interface—One PRI (E1 30 T1 24 B-channels). Same board may be used for connection to E1 or T1 terminating lines with mixed or separated traffic direction and CSA signals.
- Frequency Range: 300...3400 Hz, according ITU.
- Data Compression: Selectable 64 kbits/sec, 32 kbits/sec (ADPCM 2:1) or 16 kbits/sec (ADPCM 4:1). Digital Silence Encoding (DSE) and reconstruction selectable on record and/or playback.

Time/Date Reference

- Time Synchronization: Internal RTC (standard). Option: IRIG B, GPS or RS 232 connected time source.

Instant Replay Storage

- Recording Capacity: Approx. 10,000+ hours based on 4:1 compression (larger capacity upon request).
- Access via RS 485 control—up to 8 remote control consoles (ATIS RC 2000®, RC 3000®) can be connected simultaneously to the RS 485 bus, audio is provided to the consoles by dedicated two wire cable.
- Access via LAN: Up to 16 workstation PC's may be connected to a (preferably dedicated) LAN, audio comes "over LAN", a special ATIS workstation license is required for each PC.

Playback Functions

- Audio Outputs: Speaker jack, headphone jack, re-record jack for an external tape recorder, mixed line output for up to 8 channel simultaneous playback.
- Database Search: By date/time, channel number, channel name, call duration, call direction, caller ID and dialed number. Manual search: Scrolling the database. Search for marked records (instant replay system only).

System Security

- Audio Data: Programmable media overwrite/erase protection. Lockable drive compartment. Password protected system access. Multi-level access structure.
- Alarm Relays: Three alarm levels.

Service Functions

- System diagnostics: Service menu for card auto test functions. Option: Access via modem or LAN link (TCP/IP protocol) for remote diagnosis, update and configuration.

Environmental Conditions

- Environment: Climate controlled computer office. Temperature (operation): 5°C - 55°C). Temperature (storage): -20°C - 60°C. Relative humidity: 10...80% (non-condensing).
- Power Supply: 90...130 VAC; 180...240 VAC; 47...63 Hz out sensing; 12,24,48 VDC supply optional.
- Power Consumption: Approx. < 100 VA (excluding monitor).
- UPS: The use of an external UPS is highly recommended.

Options/Upgrades**Connectivity**

- Proprietary Recording Protocols: Connection to digital extensions of PABX's with protocols different from EDSS1 on special request.
- Computer Telephone Interfacing: CTI functionality with e.g. CSTA protocol of various PABX manufacturers available on special request.
- Network Integration: The ADVANTAGE Series can be integrated into LAN/WAN using TCP/IP communication protocol.

Network Installations

- Centralized Database: Option—Several PL 4600's can be connected to a common database server for centralized administration, search and playback.
- Supervisor Position: Option—For centralized operation, configuration, password access control and long term archive administration.
- Operator Position: Option—PC Workstation for online search and playback.

Other

- Power Supplies: Hot swap redundant power supply (available on request).
- External UPS optional.
- Instant Recall Capacity: Extendable to 120 GB, equivalent to approx. 15,000+ hours. Option: Mirroring of the HDD for increased data safety.
- Remote Diagnosis and Maintenance: Option—available via modem.

Stand-Alone Reproducers

- Stand-Alone Reproducers are available. Playback software only for installation in standard WIN computers with compatible archive drives.

Long Term Archiving (Removable Media)

- Drives: Up to 2 DVD drives - 9.4GB *(Others available upon request).
- DVD Cartridge: Single sided disk - 4.7 GB (650 recording hours at 16 kbits/sec).
- DVD Cartridge: Double sided disk - 2 x 4.7 GB (650 recording hours at 16 kbits/sec on each side).
- Drive Operation: (Identical copies), sequential, master/slave operation with two decks selectable or one deck in record mode the other in play mode with no service interruption.
- DAT DDS-2, DDS-3 4mm tape.
- MOD Drive 5.2 GB (Magneto Optical Disk).



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